ODYSSEA

Creating products and knowledge for the Mediterranean

bluelobster
www.bluelobster.co.uk

Marinomica

Simon Keeble

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Marinomica

~~The Mediterranean's~~ ~~Europe's~~ Digital Twin

Forecasting and simulations to enable decision making and expand knowledge concerned with the production, consumption, and transfer of wealth in the marine environment.

Defining Marinomics

marinomics

/məˈriːn’nɒmɪks/

1. The science of decision making in the marine environment.
2. The branch of knowledge concerned with the production, consumption, and transfer of wealth in the marine environment.

By defining a new field appropriately, this gives us a superb opportunity to talk about the field, what it includes (data science, economics, intelligent product design etc) and how the platform fills this space.

We encourage the community to continue to develop the definition of this field (Wikipedia page?) and contribute to it.

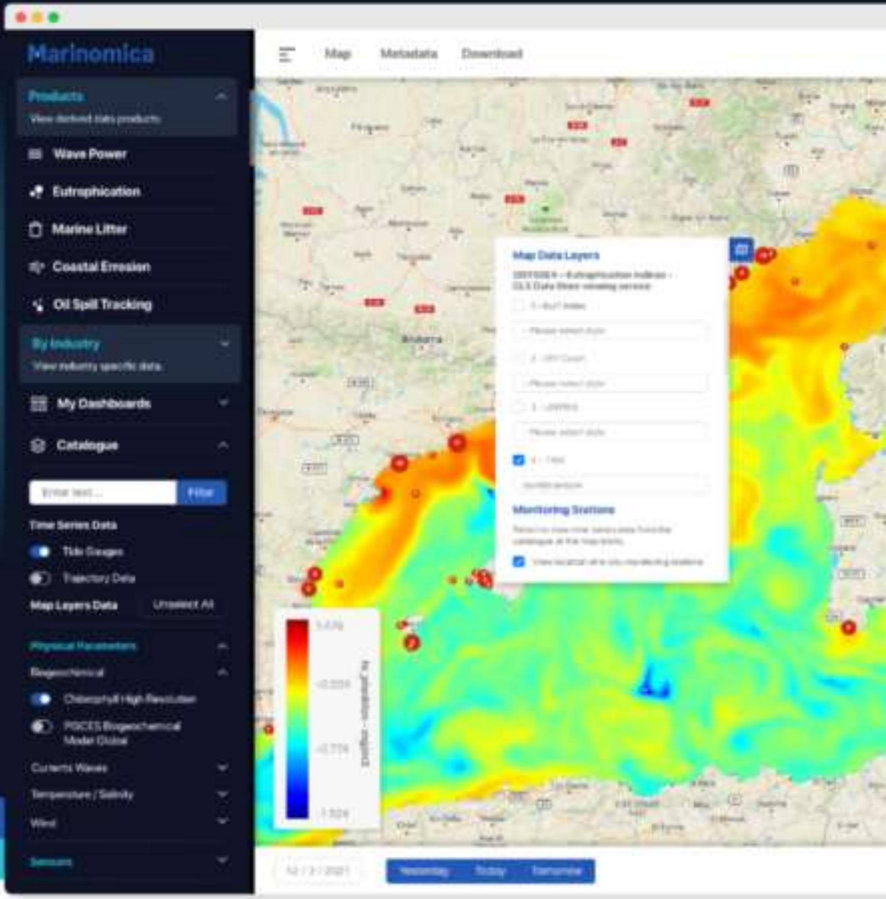
We have therefore branded the application as ***Marinomica***

Suffix. -ica. a collection of things that relate to a specific place, person, theme, etc.

Creating products and knowledge for the coastal and offshore seas

Marinomica transforms knowledge into valuable information that can be used to increase revenues, attract investment and manage ecological challenges.

Get Started


Marinomica
Map
Metadata
Download
Products
View derived data products
Wave Power
Eutrophication
Marine Litter
Coastal Erosion
Oil Spill Tracking
By Industry
View industry specific data
My Dashboards
Catalogue
Enter text...
Filter
Time Series Data
Tide Gauges
Trajectory Data
Map Layers Data
Unselect All
Physical Parameters
Biogeochemical
Chlorophyll High Resolution
PISCES Biogeochemical Model Global
Currents Waves
Temperature / Salinity
Wind
Sensors
Map Data Layers
Monitoring Stations
Yesterday
Today
Tomorrow

What is Marinomica?

The platform provides state of the art on-demand data services and forecasts to a wide range of users managing and mitigating challenges arising from changes in the water. Marinomica has brought data acquisition, usage of AI, modern modelling capabilities and visualisation to a next level.

For all interested parties in accessing knowledge concerned with the production, consumption, and transfer of wealth in the marine environment, the Marinomica Platform will provide a single portal by applying advanced

Jellyfish Swarm Forecast

Marinomica services include early warnings of jellyfish blooms and potential stranding locations. Historical data, real-time and forecasting data are presented in maps for each pixel point of coastline, near- and offshore areas.

Ocean Energy Potential

Wind and wave energy potential mapping and forecasts; forces exerted on piles and platforms; extreme events analysis; potential for H2 production from H2S.

Maritime Safety

Vessel routes optimisation; dispersion of both accidental and non-accidental oil spill releases; dispersion of accidental litter release. Definition of areas in which ballast water exchange and/or open loop scrubber effluent discharge is allowed and defining "same location" as defined by the BWMC.

Aquaculture & Algael

Analysis on probability of occurrence of storm events, extreme waves and surges; Recommendations on cage siting, configuration and anchoring. Analysis on probability of occurrence of eutrophication incidents; early-warnings on algal blooms and toxic blooms.

Fisheries Exploitation

Marine safety and security of fishers; dynamic estimation of the probability of occurrence of certain species; stock assessments and management recommendations; probability of occurrence of invasive species.

Plastic Pollution Monitoring

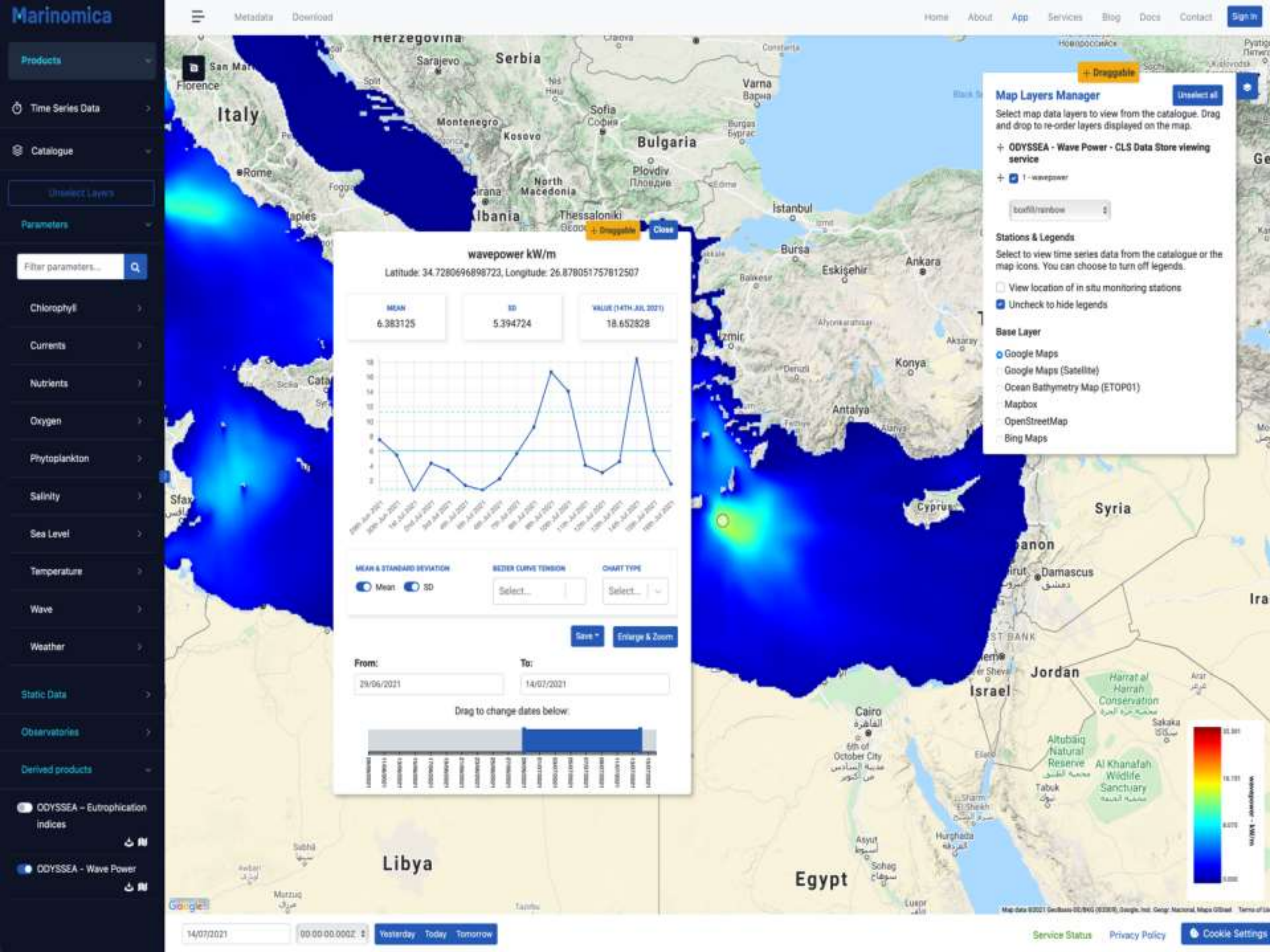
Potential to identify sources of rubbish and locate and map polluted stretches of the sea and coastline. Will provide permanent and real-time access to information and date from noval plastic monitoring sensors and (in the future) reported sightings and incidents.

Leisure & Tourism

Historic and forecast shoreline erosion/deposition changes; Coastal Vulnerability Indices; metocean conditions monitoring and forecasting for safe leisure activities; potential jellyfish outbreak forecasts and tracking.

Coastal Erosion

Identifies coastal erosion 'hotspots' in specific areas along the shoreline and obtain forecasts about potential coastal retreat and loss of land. Results are presented in maps. Historical data, real-time and forecasting data for each pixel point of coastline, near- and offshore areas.



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Unselect Layers
Parameters
Filter parameters...
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Phytoplankton
Salinity
Sea Level
Temperature
Wave
Weather
Static Data
Observatories
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ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
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Ankara
Konya
Antalya
Izmir
Bursa
Thessaloniki
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2
MEAN & STANDARD DEVIATION
Mean
SD
BEZIER CURVE TENSION
Select...
CHART TYPE
Select...
Save
Enlarge & Zoom
Unselect all
Yesterday
Today
Tomorrow
Service Status
Privacy Policy
Cookie Settings

wavepower kW/m

Latitude: 34.7280696898723, Longitude: 26.878051757812507

MEAN	SD	VALUE (14TH JUL 2021)
6.383125	5.394724	18.652828

From: 29/06/2021

To: 14/07/2021

Drag to change dates below:

Map Layers Manager

Select map data layers to view from the catalogue. Drag and drop to re-order layers displayed on the map.

+ **ODYSSEA - Wave Power - CLS Data Store viewing service**

+ ☑ 1 - wavepower

boxfill/rainbow

Stations & Legends

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.

☐ View location of in situ monitoring stations

☑ Uncheck to hide legends

Base Layer

● Google Maps

○ Google Maps (Satellite)

○ Ocean Bathymetry Map (ETOP01)

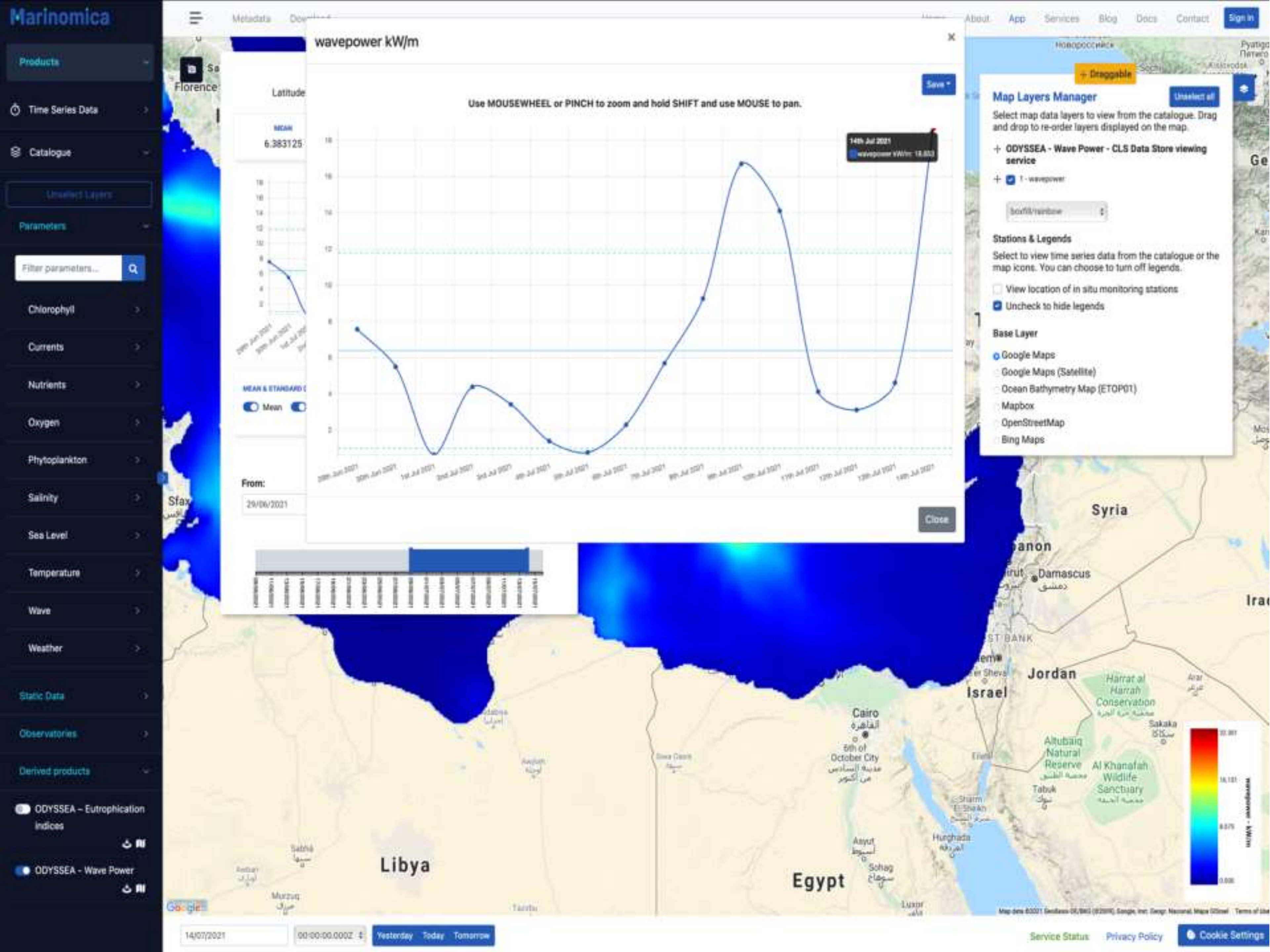
○ Mapbox

○ OpenStreetMap

○ Bing Maps

14/07/2021

00:00:00.000Z



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Currents
Nutrients
Oxygen
Phytoplankton
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ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
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From:
29/06/2021
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Israel
Cairo
Libya
Egypt
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Yesterday
Today
Tomorrow
Service Status
Privacy Policy
Cookie Settings
wavepower - kW/m

Use MOUSEWHEEL or PINCH to zoom and hold SHIFT and use MOUSE to pan.

Map Layers Manager

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+ **ODYSSEA - Wave Power - CLS Data Store viewing service**

+ ☑ 1 - wavepower

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○ Google Maps (Satellite)

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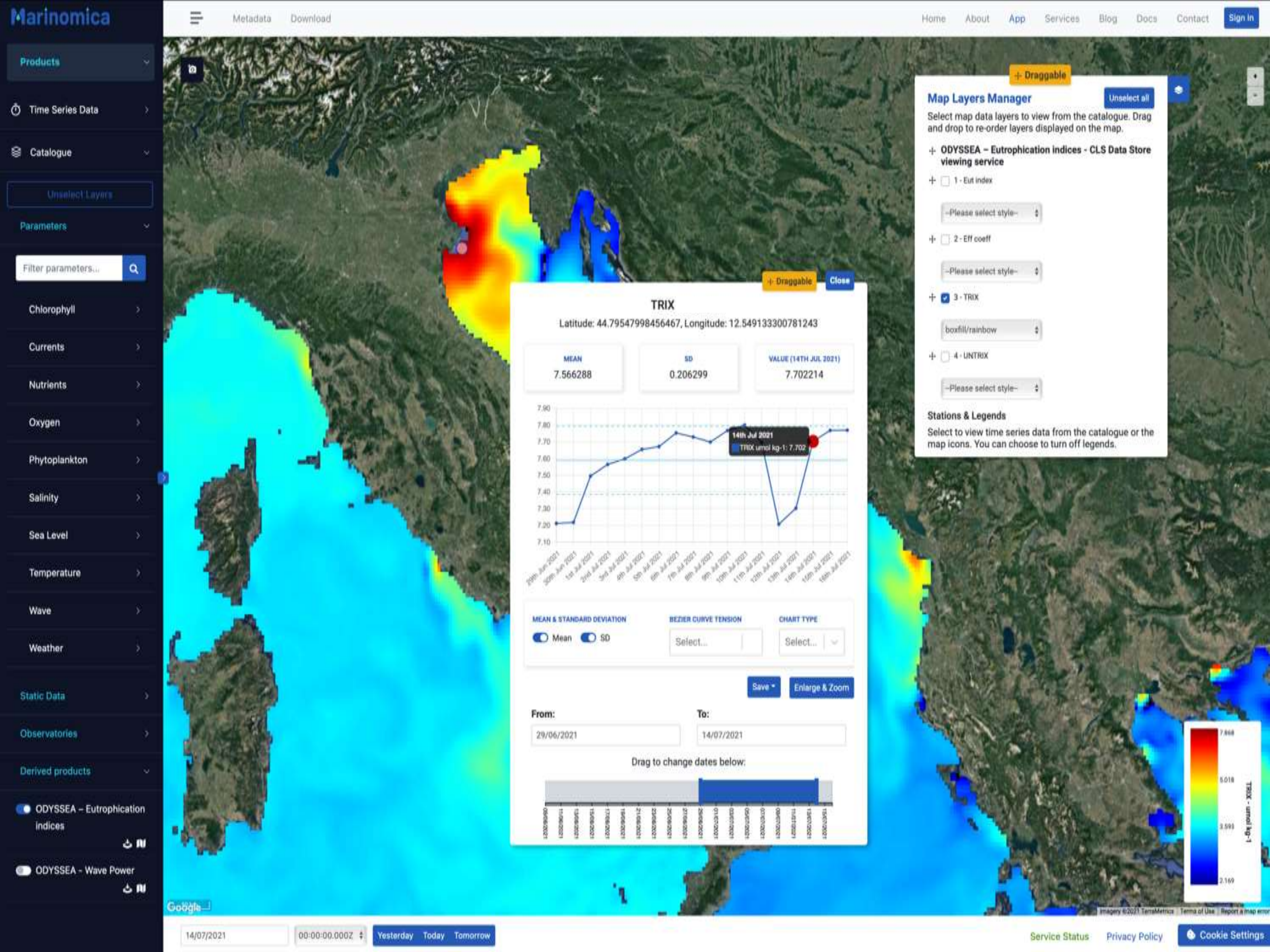
○ Mapbox

○ OpenStreetMap

○ Bing Maps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Parameters
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7.868
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3.593
2.169
TRIX - umol kg-1
Google
Yesterday
Today
Tomorrow
Service Status
Privacy Policy
Cookie Settings

TRIX

Latitude: 44.79547998456467, Longitude: 12.549133300781243

MEAN	SD	VALUE (14TH JUL 2021)
7.566288	0.206299	7.702214

14th Jul 2021
TRIX umol kg-1: 7.702

MEAN & STANDARD DEVIATION: Mean ● SD ●

BEZIER CURVE TENSION: Select...

CHART TYPE: Select...

From: 29/06/2021

To: 14/07/2021

Drag to change dates below:

Map Layers Manager

Select map data layers to view from the catalogue. Drag and drop to re-order layers displayed on the map.

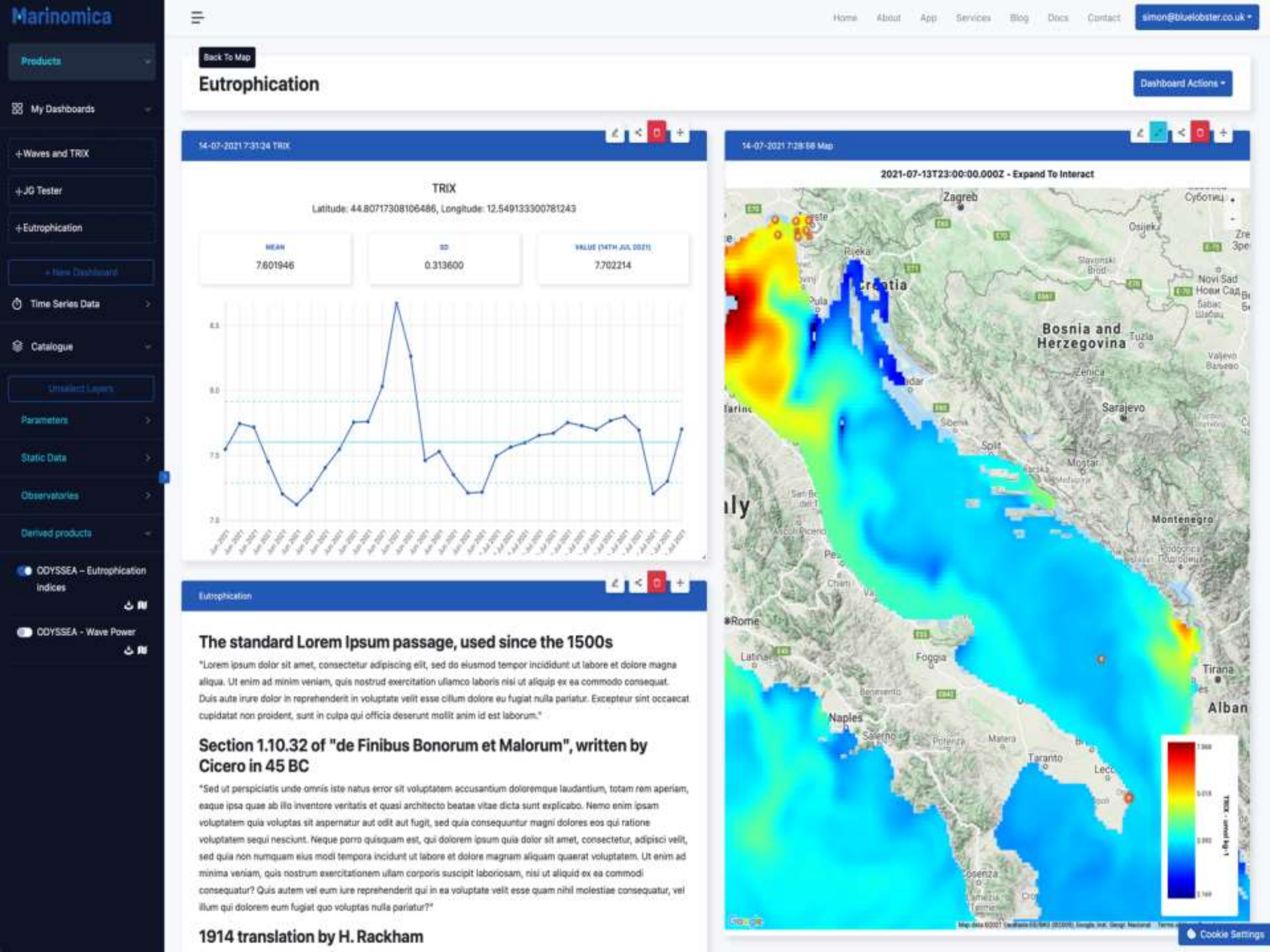
ODYSSEA – Eutrophication indices - CLS Data Store viewing service

- ☐ 1 - Eut index — --Please select style--
- ☐ 2 - Eff coeff — --Please select style--
- ☑ 3 - TRIX — boxfill/rainbow
- ☐ 4 - UNTRIX — --Please select style--

Stations & Legends

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.

14/07/2021 00:00:00.000Z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+Waves and TRIX
+JG Tester
+Eutrophication
+ New Dashboard
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ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
Back To Map
Dashboard Actions
Cookie Settings

Eutrophication

14-07-2021 7:31:24 TRIX

TRIX

Latitude: 44.80717308106486, Longitude: 12.549133300781243

MEAN	SD	VALUE (14TH JUL 2021)
7.601946	0.313600	7.702214

8.5
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Jul 2021

14-07-2021 7:28:58 Map

2021-07-13T23:00:00.000Z - Expand To Interact

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Osijek
Slavonski Brod
Novi Sad
Bosnia and Herzegovina
Tuzla
Zenica
Sarajevo
Split
Mostar
Montenegro
Podgorica
Tirana
Albania
Italy
Rome
Latina
Foggia
Naples
Salerno
Potenza
Matera
Taranto
Lecce
Cosenza
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TRIX - umol kg-1
Google

Eutrophication

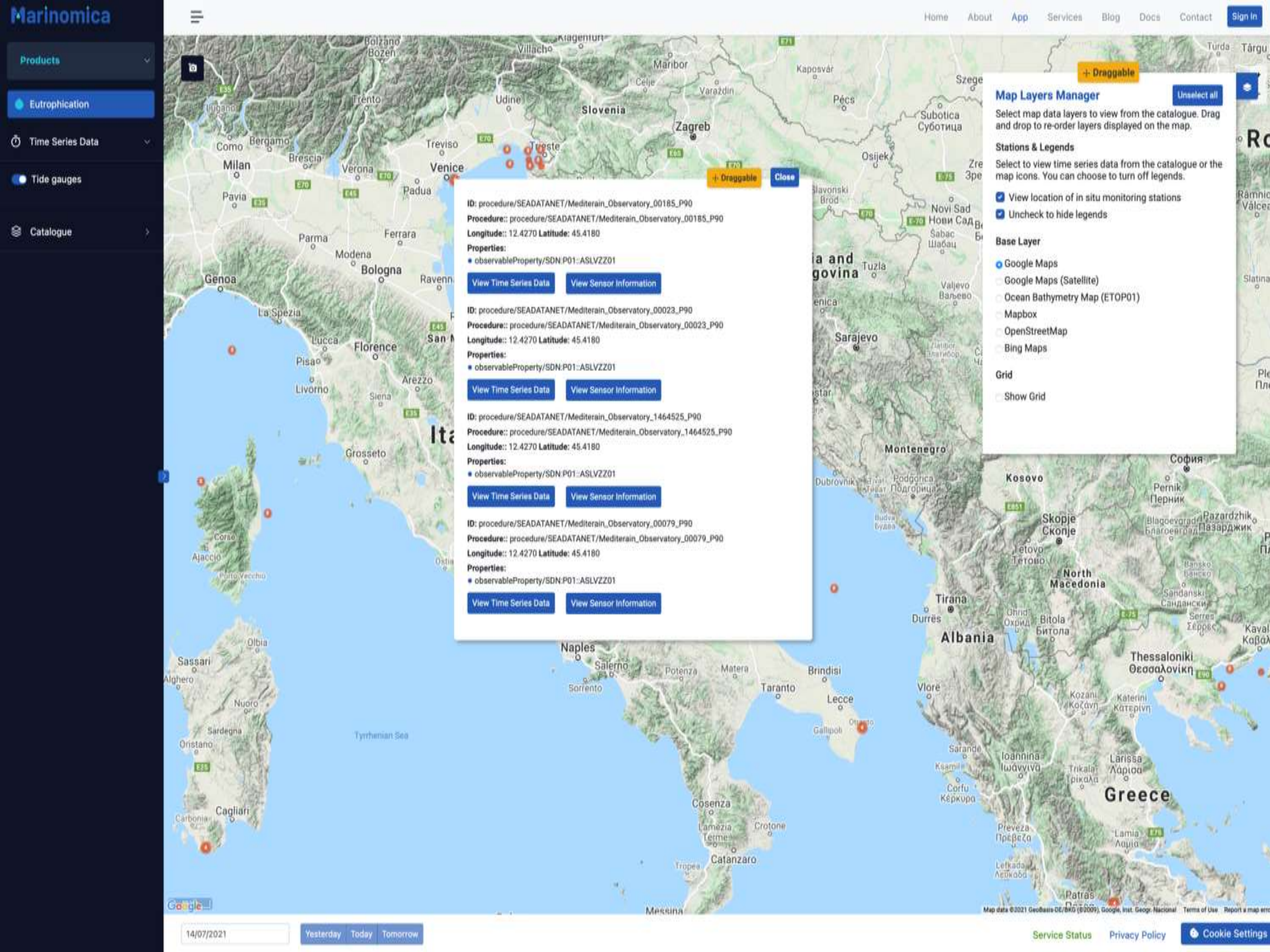
The standard Lorem Ipsum passage, used since the 1500s

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."

Section 1.10.32 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC

"Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?"

1914 translation by H. Rackham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+ Draggable
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View Time Series Data
View Sensor Information
+ Draggable
Unselect all
Yesterday
Today
Tomorrow
Service Status
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Map data ©2021 GeoBasis-DE/BKG (©2009), Google, Inst. Geogr. Nacional
Terms of Use
Report a map error

ID: procedure/SEADATANET/Mediterain_Observatory_00185_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00185_P90
Longitude:: 12.4270 **Latitude:** 45.4180
Properties:

- observableProperty/SDN:P01::ASLVZZ01

ID: procedure/SEADATANET/Mediterain_Observatory_00023_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00023_P90
Longitude:: 12.4270 **Latitude:** 45.4180
Properties:

- observableProperty/SDN:P01::ASLVZZ01

ID: procedure/SEADATANET/Mediterain_Observatory_1464525_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_1464525_P90
Longitude:: 12.4270 **Latitude:** 45.4180
Properties:

- observableProperty/SDN:P01::ASLVZZ01

ID: procedure/SEADATANET/Mediterain_Observatory_00079_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00079_P90
Longitude:: 12.4270 **Latitude:** 45.4180
Properties:

- observableProperty/SDN:P01::ASLVZZ01

Map Layers Manager

Select map data layers to view from the catalogue. Drag and drop to re-order layers displayed on the map.

Stations & Legends

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.

☑ View location of in situ monitoring stations
☑ Uncheck to hide legends

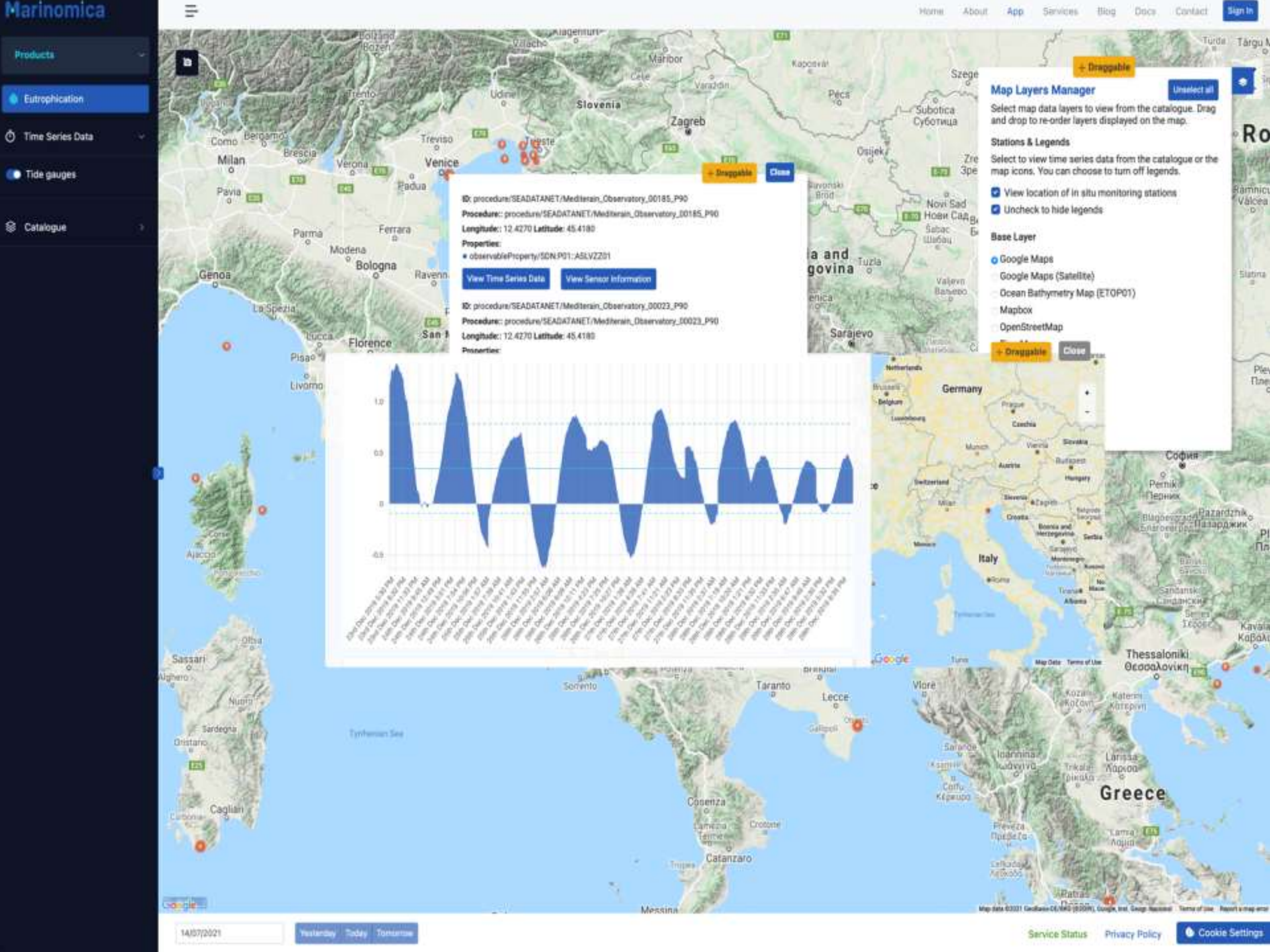
Base Layer

● Google Maps
○ Google Maps (Satellite)
○ Ocean Bathymetry Map (ETOP01)
○ Mapbox
○ OpenStreetMap
○ Bing Maps

Grid

☐ Show Grid

14/07/2021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ID: procedure/SEADATANET/Mediterain_Observatory_00185_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00185_P90
Longitude:: 12.4270 **Latitude:** 45.4180
Properties:
- observableProperty/SDN:P01::ASLVZZ01

ID: procedure/SEADATANET/Mediterain_Observatory_00023_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00023_P90
Longitude:: 12.4270 **Latitude:** 45.4180
Properties:

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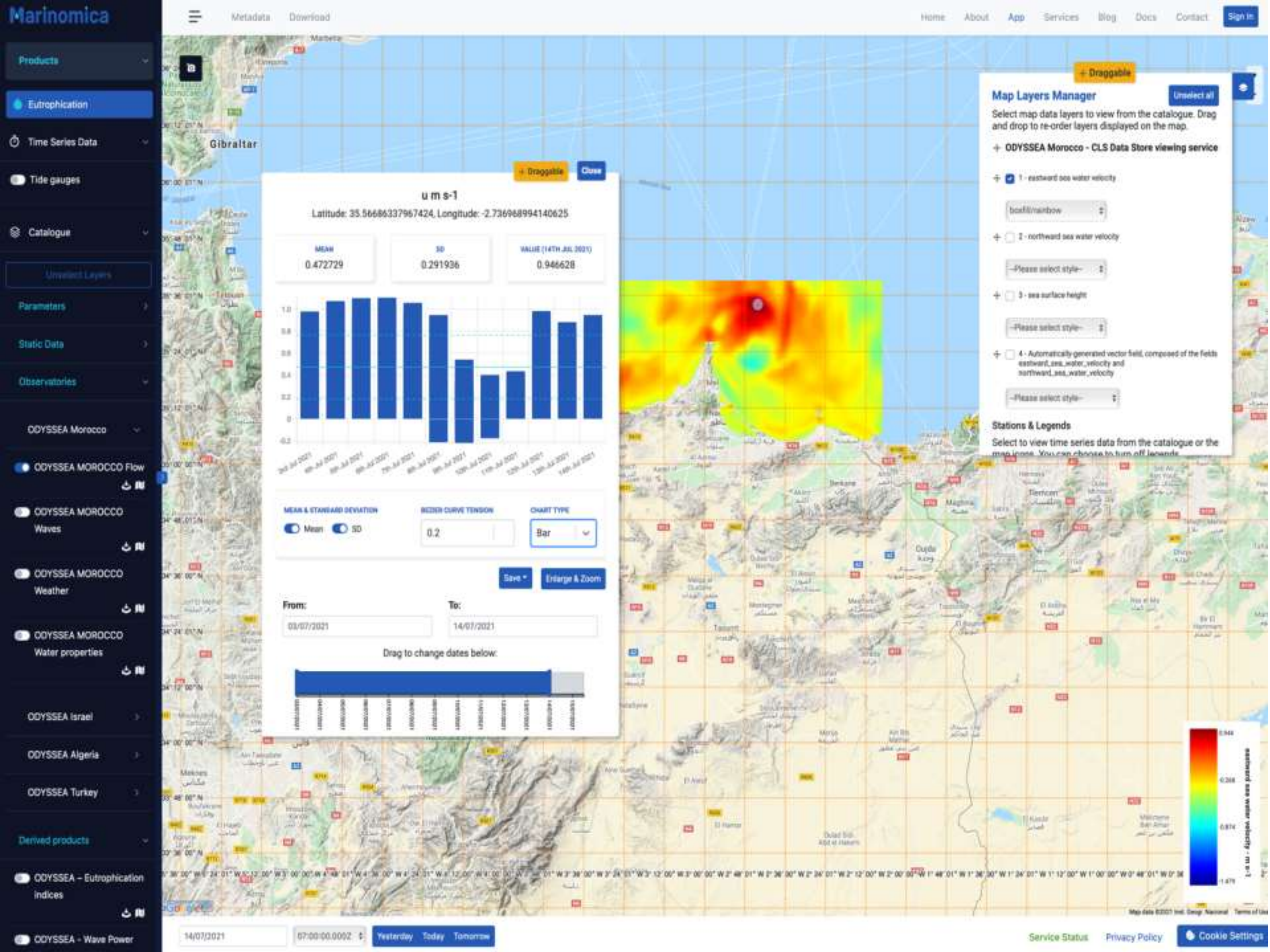
Base Layer

● Google Maps
○ Google Maps (Satellite)
○ Ocean Bathymetry Map (ETOP01)
○ Mapbox
○ OpenStreetMap

14/07/2021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ODYSSEA - Wave Power
Gibraltar
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12th Jul 2021
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+ Draggable
Unselect all
Stations & Legends
0.946
0.268
-0.674
-1.479
eastward sea water velocity - m s-1
Yesterday
Today
Tomorrow
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u m s-1

Latitude: 35.56686337967424, Longitude: -2.736968994140625

MEAN	SD	VALUE (14TH JUL 2021)
0.472729	0.291936	0.946628

MEAN & STANDARD DEVIATION: Mean ●, SD ●

BEZIER CURVE TENSION: 0.2

CHART TYPE: Bar

From: 03/07/2021

To: 14/07/2021

Map Layers Manager

Select map data layers to view from the catalogue. Drag and drop to re-order layers displayed on the map.

+ **ODYSSEA Morocco - CLS Data Store viewing service**

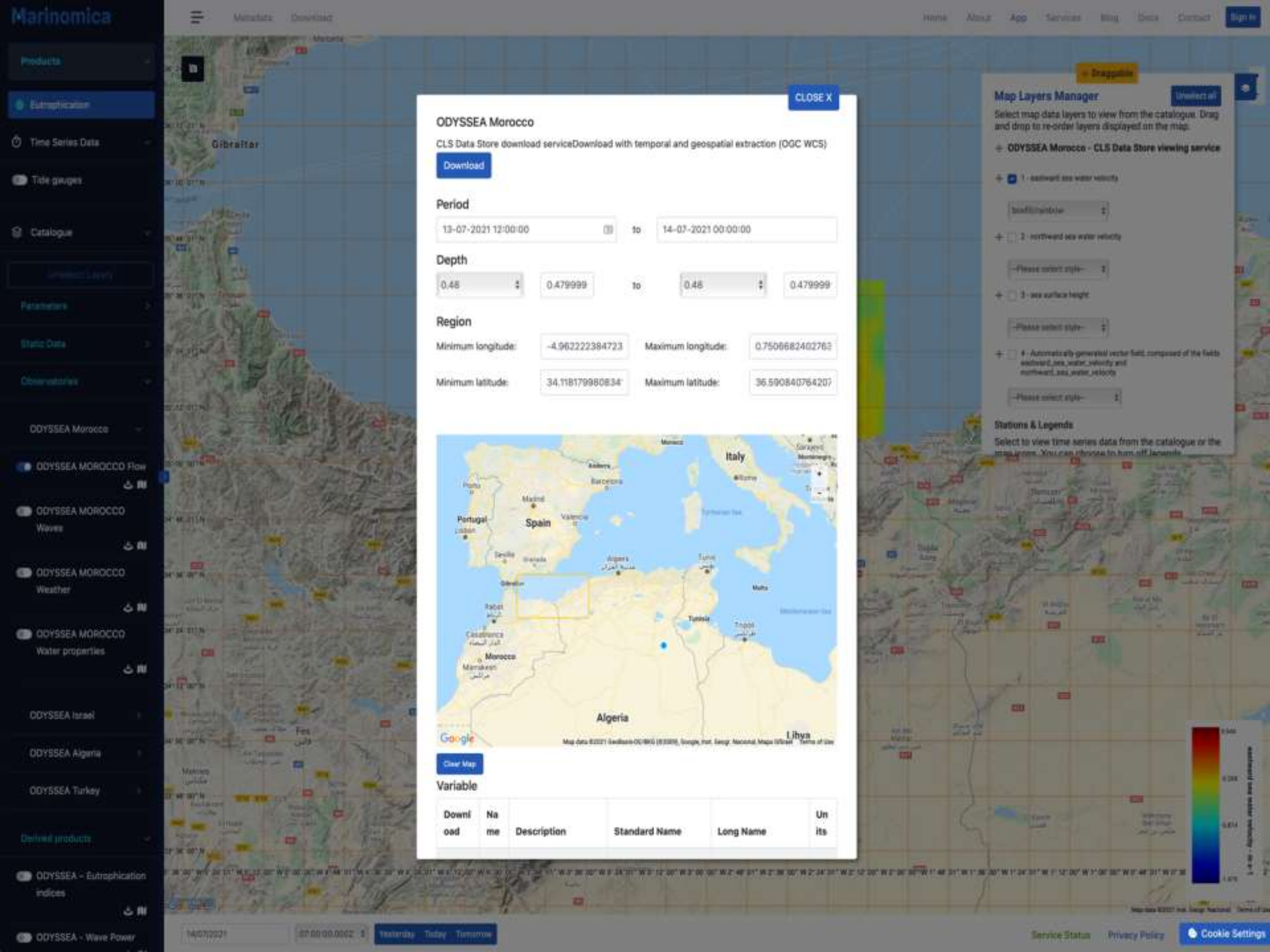
- ☑ 1 - eastward sea water velocity — boxfill/rainbow
- ☐ 2 - northward sea water velocity — --Please select style--
- ☐ 3 - sea surface height — --Please select style--
- ☐ 4 - Automatically generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity — --Please select style--

Stations & Legends

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.

14/07/2021 07:00:00.000Z

Map data ©2021 Inst. Geogr. Nacional Terms of Use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CLOSE X

ODYSSEA Morocco

CLS Data Store download serviceDownload with temporal and geospatial extraction (OGC WCS)

Download

Period

13-07-2021 12:00:00 to 14-07-2021 00:00:00

Depth

0.48 0.479999 to 0.48 0.479999

Region

Minimum longitude: -4.962222384723

Maximum longitude: 0.750668240276З

Minimum latitude: 34.118179980834

Maximum latitude: 36.590840764207

Variable

Download	Name	Description	Standard Name	Long Name	Units

Select map data layers to view from the catalogue. Drag and drop to re-order layers displayed on the map.

ODYSSEA Morocco - CLS Data Store viewing service

☑ 1 - eastward sea water velocity

boxfill/rainbow

☐ 2 - northward sea water velocity

--Please select style--

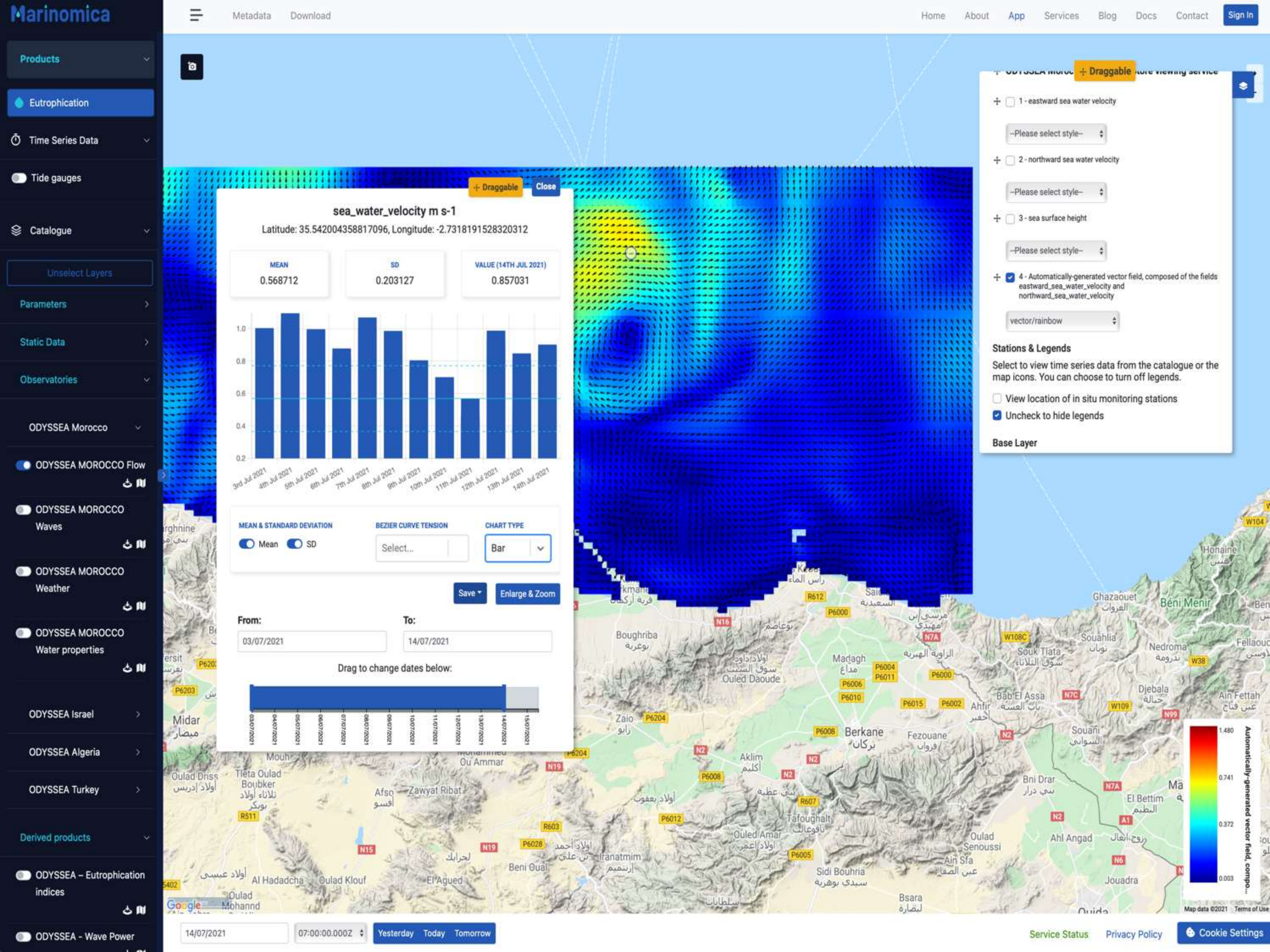
☐ 3 - sea surface height

--Please select style--

☐ 4 - Automatically generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity

--Please select style--

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.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4th Jul 2021
5th Jul 2021
6th Jul 2021
7th Jul 2021
8th Jul 2021
9th Jul 2021
10th Jul 2021
11th Jul 2021
12th Jul 2021
13th Jul 2021
14th Jul 2021
Save
Enlarge & Zoom
Drag to change dates below:
03/07/2021
04/07/2021
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14/07/2021
15/07/2021
Draggable
1.480
0.741
0.372
0.003
Automatically-generated vector field, compo...
Yesterday
Today
Tomorrow
Service Status
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sea_water_velocity m s-1

Latitude: 35.542004358817096, Longitude: -2.7318191528320312

MEAN	SD	VALUE (14TH JUL 2021)
0.568712	0.203127	0.857031

MEAN & STANDARD DEVIATION: ● Mean ● SD

BEZIER CURVE TENSION: Select...

CHART TYPE: Bar

From: 03/07/2021

To: 14/07/2021

ODYSSEA Morocco ... viewing service

☐ 1 - eastward sea water velocity

--Please select style--

☐ 2 - northward sea water velocity

--Please select style--

☐ 3 - sea surface height

--Please select style--

☑ 4 - Automatically-generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity

vector/rainbow

Stations & Legends

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.

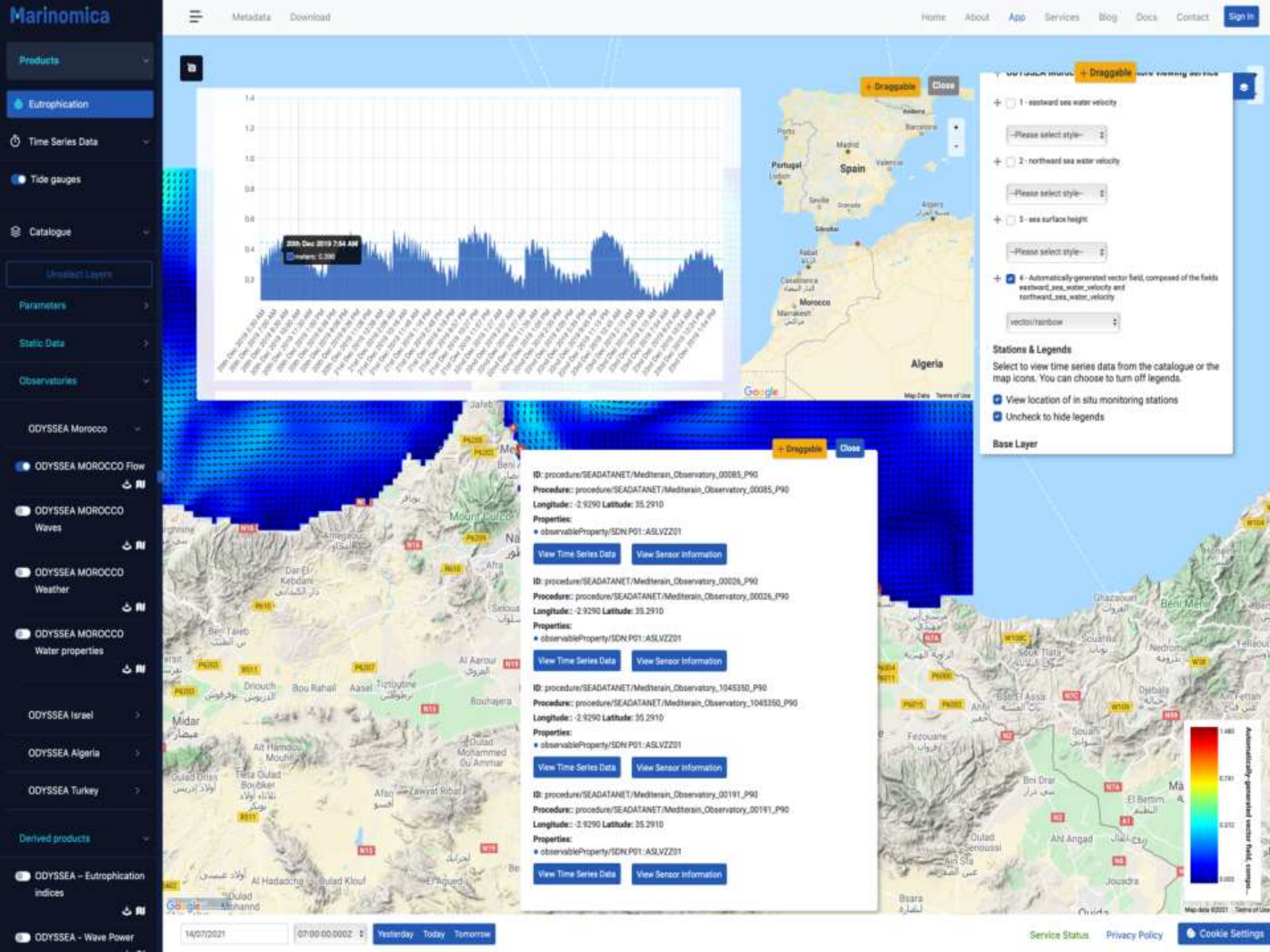
☐ View location of in situ monitoring stations

☑ Uncheck to hide legends

Base Layer

14/07/2021 07:00:00.000Z

Map data ©2021 Terms of Use


Marinomica
Metadata
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Home
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App
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Contact
Sign In
Products
Eutrophication
Time Series Data
Tide gauges
Catalogue
Unselect Layers
Parameters
Static Data
Observatories
ODYSSEA Morocco
ODYSSEA MOROCCO Flow
ODYSSEA MOROCCO Waves
ODYSSEA MOROCCO Weather
ODYSSEA MOROCCO Water properties
ODYSSEA Israel
ODYSSEA Algeria
ODYSSEA Turkey
Derived products
ODYSSEA – Eutrophication indices
ODYSSEA - Wave Power
1.4
1.2
1.0
0.8
0.6
0.4
0.2
20th Dec 2019 7:54 AM
Draggable
Close
Portugal
Spain
Madrid
Barcelona
Valencia
Porto
Lisbon
Seville
Granada
Algiers
Gibraltar
Rabat
Casablanca
Morocco
Marrakesh
Algeria
Google
Map Data
Terms of Use
Draggable
1 - eastward sea water velocity
-Please select style-
2 - northward sea water velocity
-Please select style-
3 - sea surface height
-Please select style-
4 - Automatically-generated vector field, composed of the fields eastward_sea_water_velocity and northward_sea_water_velocity
vector/rainbow
Stations & Legends
Base Layer
Draggable
Close
View Time Series Data
View Sensor Information
Automatically-generated vector field, compo...
14/07/2021
07:00:00.000Z
Yesterday
Today
Tomorrow
Service Status
Privacy Policy
Cookie Settings

Select to view time series data from the catalogue or the map icons. You can choose to turn off legends.

☑ View location of in situ monitoring stations

☑ Uncheck to hide legends

ID: procedure/SEADATANET/Mediterain_Observatory_00085_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00085_P90
Longitude:: -2.9290 **Latitude:** 35.2910
Properties:
- observableProperty/SDN:P01::ASLVZZ01

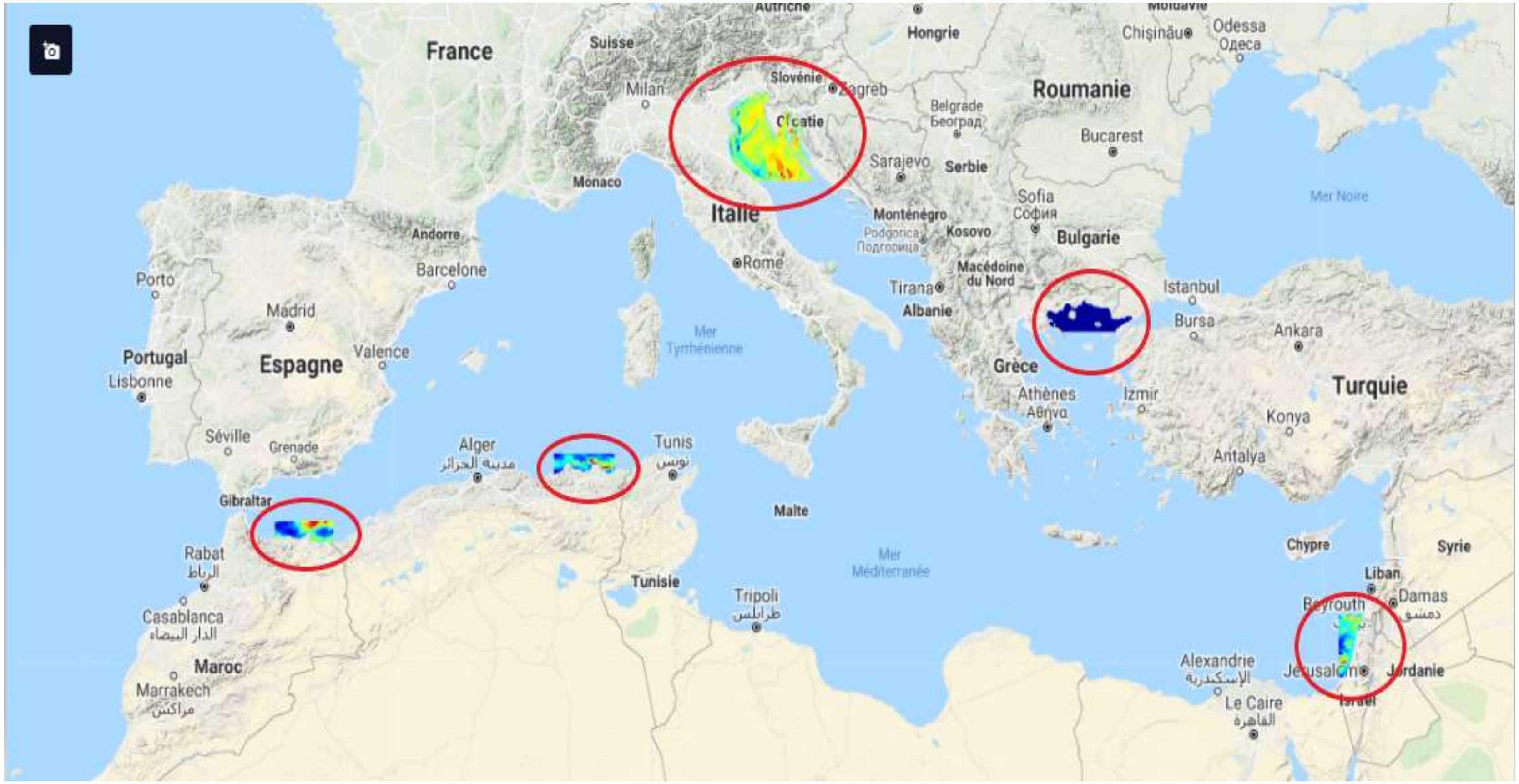
ID: procedure/SEADATANET/Mediterain_Observatory_00026_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00026_P90
Longitude:: -2.9290 **Latitude:** 35.2910
Properties:
- observableProperty/SDN:P01::ASLVZZ01

ID: procedure/SEADATANET/Mediterain_Observatory_1045350_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_1045350_P90
Longitude:: -2.9290 **Latitude:** 35.2910
Properties:
- observableProperty/SDN:P01::ASLVZZ01

ID: procedure/SEADATANET/Mediterain_Observatory_00191_P90
Procedure:: procedure/SEADATANET/Mediterain_Observatory_00191_P90
Longitude:: -2.9290 **Latitude:** 35.2910
Properties:
- observableProperty/SDN:P01::ASLVZZ01

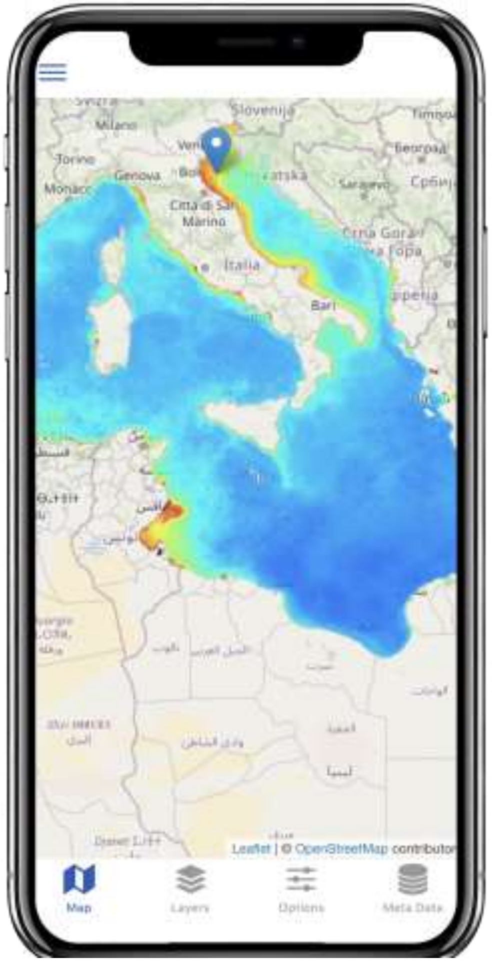
ODYSSEA Observatories

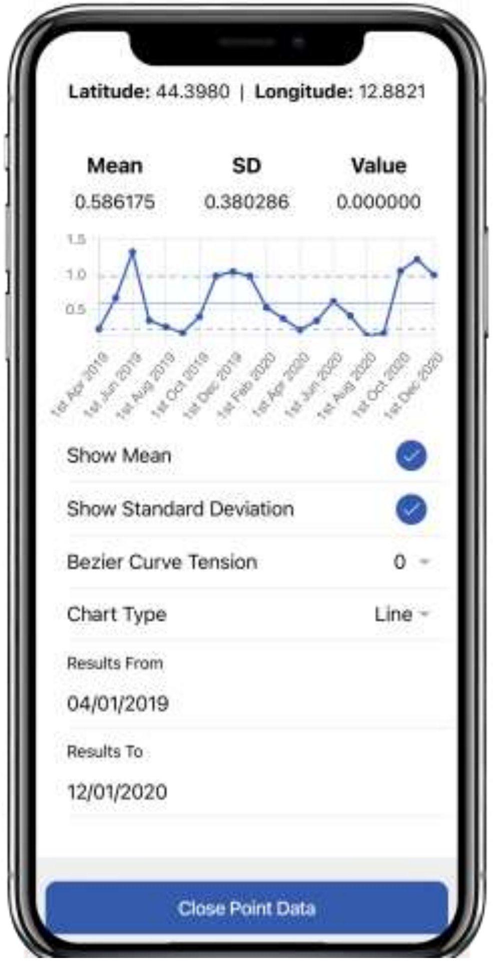
Models from 5 observatories are automatically integrated every day.


Autriche
Hongrie
Moldavie
France
Suisse
Chișinău
Odessa
Одеса
Slovénie
Zagreb
Milan
Croatie
Roumanie
Belgrade
Београд
Bucarest
Sarajevo
Serbie
Monaco
Italie
Mer Noire
Monténégro
Podgorica
Подгорица
Kosovo
Sofia
София
Bulgarie
Andorre
Rome
Barcelone
Macédoine du Nord
Porto
Tirana
Albanie
Istanbul
Madrid
Mer Tyrrhénienne
Bursa
Ankara
Valence
Portugal
Espagne
Grèce
Lisbonne
Turquie
Athènes
Αθήνα
Izmir
Konya
Séville
Grenade
Alger
مدينة الجزائر
Tunis
تونس
Antalya
Gibraltar
Malte
Chypre
Syrie
Rabat
الرباط
Mer Méditerranée
Liban
Tunisie
Beyrouth
Damas
دمشق
Casablanca
الدار البيضاء
Tripoli
طرابلس
Maroc
Alexandrie
الإسكندرية
Jérusalem
Jordanie
Marrakech
مراكش
Le Caire
القاهرة
Israël

Marinomica Mobile

ODYSSEA


Leaflet | © OpenStreetMap contributors
Map
Layers
Options
Meta Data


Latitude: 44.3980 | **Longitude:** 12.8821

Mean	SD	Value
0.586175	0.380286	0.000000

1.5
1.0
0.5
1st Apr 2019
1st Jun 2019
1st Aug 2019
1st Oct 2019
1st Dec 2019
1st Feb 2020
1st Apr 2020
1st Jun 2020
1st Aug 2020
1st Oct 2020
1st Dec 2020

Show Mean ☑

Show Standard Deviation ☑

Bezier Curve Tension 0

Chart Type Line

Results From

04/01/2019

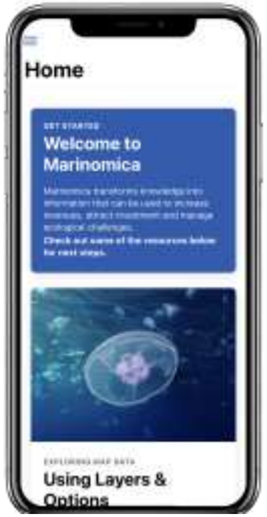
Results To

12/01/2020

Close Point Data

Download on the Mac App Store

GET IT ON Google Play


Home

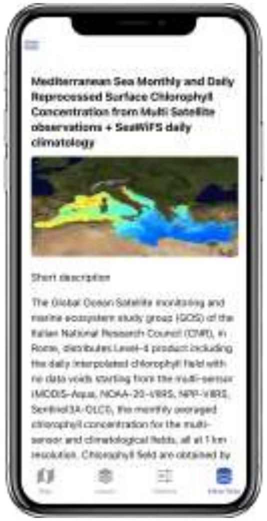
GET STARTED

Welcome to Marinomica

Marinomica transforms knowledge into information that can be used to increase revenues, attract investment and manage ecological challenges.
Check out some of the resources below for next steps.

EXPLORING MAP DATA

Using Layers & Options


Mediterranean Sea Monthly and Daily Reprocessed Surface Chlorophyll Concentration from Multi Satellite observations + SeaWiFS daily climatology

Short description

The Global Ocean Satellite monitoring and marine ecosystem study group (GOS) of the Italian National Research Council (CNR), in Rome, distributes Level-4 product including the daily interpolated chlorophyll field with no data voids starting from the multi-sensor (MODIS-Aqua, NOAA-20-VIIRS, NPP-VIIRS, Sentinel3A-OLCI), the monthly averaged chlorophyll concentration for the multi-sensor and climatological fields, all at 1 km resolution. Chlorophyll field are obtained by

Architecture

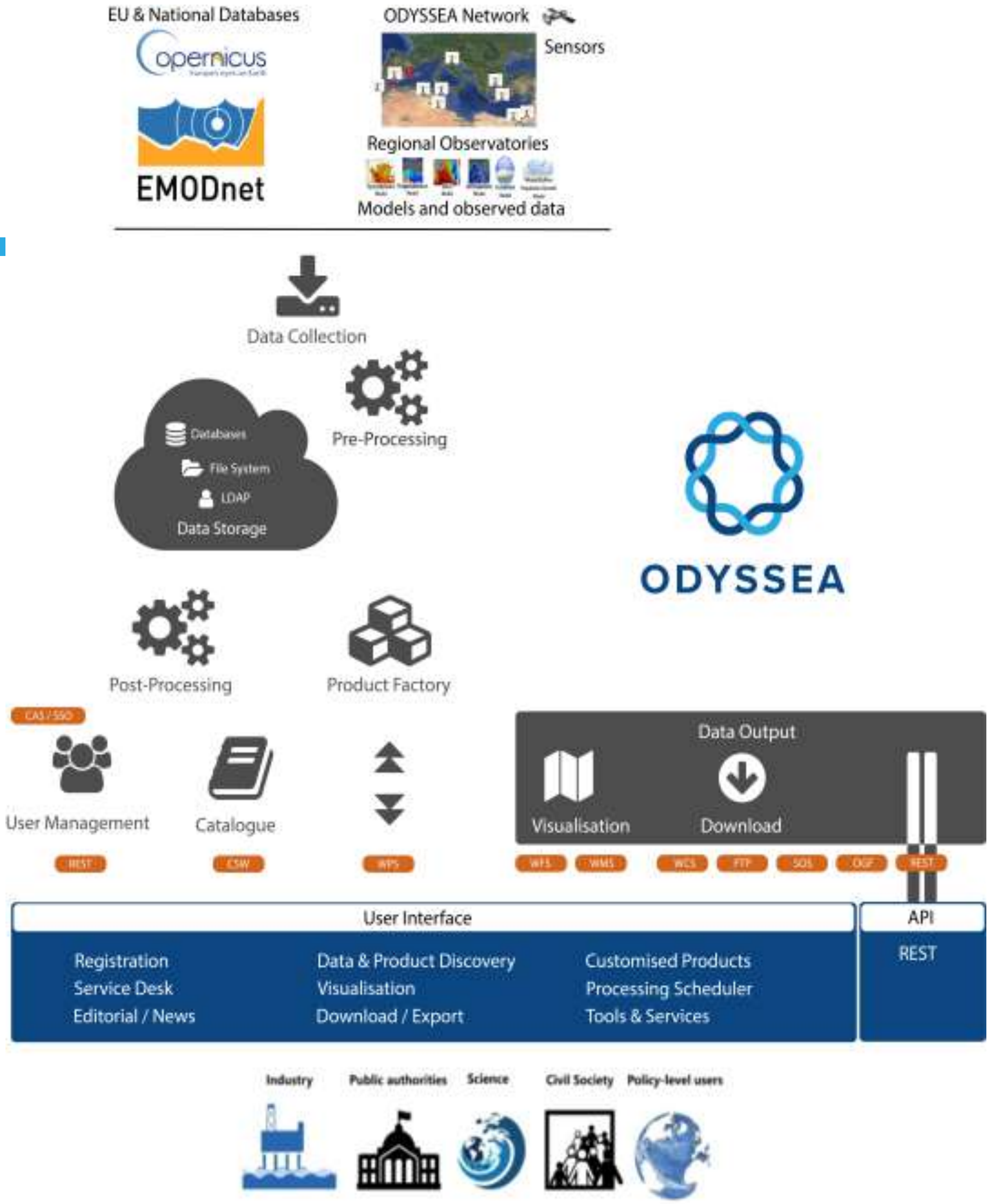
The platform is compliant with OGC protocols

SOS
CSW
WCS
WMS
WPS

docker

kubernetes

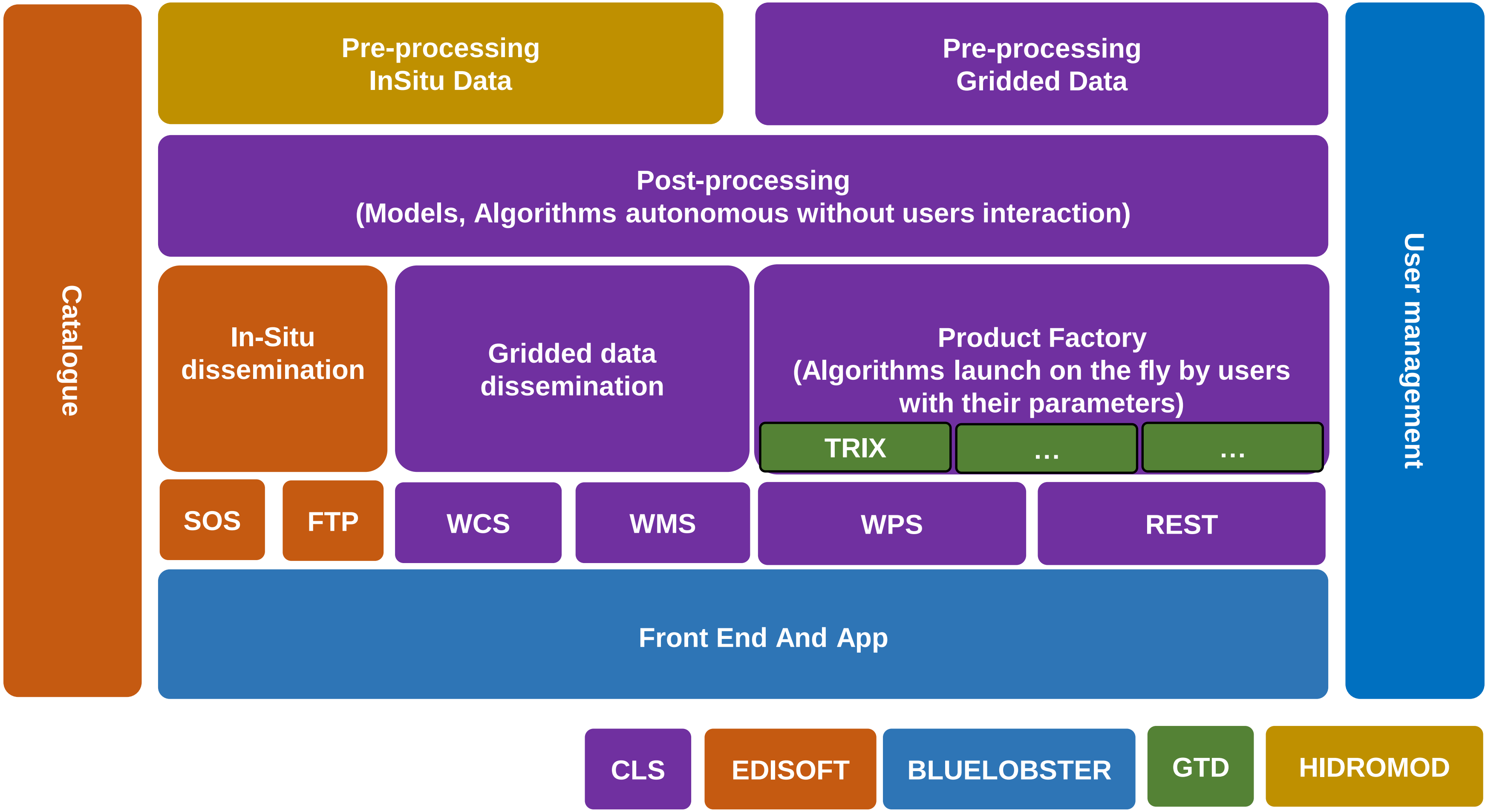
Marinomica also feeds back data and products via an API.


EU & National Databases
Copernicus
EMODnet
ODYSSEA Network
Sensors
Regional Observatories
Models and observed data
Data Collection
Pre-Processing
Databases
File System
LDAP
Data Storage
Post-Processing
Product Factory
CAS / SSO
User Management
Catalogue
Data Output
Visualisation
Download
REST
CSW
WPS
WFS
WMS
WCS
FTP
SOS
OGF
REST
User Interface
API
Registration
Service Desk
Editorial / News
Data & Product Discovery
Visualisation
Download / Export
Customised Products
Processing Scheduler
Tools & Services
REST
Industry
Public authorities
Science
Civil Society
Policy-level users

ODYSSEA

Collaborative development approach

ODYSSEA



Catalogue

Pre-processing
InSitu Data

Pre-processing
Gridded Data

Post-processing
(Models, Algorithms autonomous without users interaction)

In-Situ dissemination

Gridded data dissemination

Product Factory
(Algorithms launch on the fly by users with their parameters)

TRIX

…

…

SOS

FTP

WCS

WMS

WPS

REST

Front End And App

User management

CLS

EDISOFT

BLUELOBSTER

GTD

HIDROMOD

Where are we now

- Live at **marinomica.com**
- Receiving feedback
- Continuous development for both desktop and mobile.
- New data – more citizen science data.
- Business establishing to take forward

New features in next evolution (in addition to fixes!)

Enhanced dashboard functionality

- New visualisations
- Improved performance and user experience – simplify, simplify, simplify!
- Simplified visualisations for specific user types
- Pre-configured dashboards for specific fields of interest (Eutrofication, Wave Power, Jellyfish, Marine litter, Climate etc.)
- Sharing dashboards (inside and outside of the application)

New user signup and controls

- Profile configuration: Location, areas of interest. Dashboards automatically customised.

Alerts

- Set alert conditions: “Wave height > x” for example
- Customisable – WHERE x > y AND a < b
- Alerts sent to multiple users
- Via website, email, SMS, mobile app

Advanced processing: The Product Factory

- Choose processing and algorithms to run
- Processes triggered by alerts

New projects

H2020 EcoScope - Started in September 2021

Ecosystem based approach to the management of fisheries.

H2020 Iliad - Digital Twin(s) - Starting in February 2022

Commercialisation

In discussions…

Marinomica

www.marinomica.com

or

Search for ‘**Marinomica**’ on the Google Play Store / Apple App Store

Sorry, not available on Blackberry!

ODYSSEA

Creating products and knowledge
for the Mediterranean

bluelobster
www.bluelobster.co.uk

THANK-YOU

Simon Keeble

Blue Lobster IT Limited

simon@bluelobster.co.uk

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